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Complete if Known Substitute for form 1449A/PTO . **Application Number** 10/615.927 INFORMATION DISCLOSURE Filing Date July 10, 2003 STATEMENT BY APPLICANT Louis B. Rosenberg First Named Inventor 2675. Art Unit (use as many sheets as necessary) Examiner Name Unassigned Attorney Docket Number **IMMR106/01US** of | 6 Sheet

U.S. PATENT DOCUMENTS Document Number Pages, Columns, Lines, Where Relevant Passages or Relevant Publication Date Name of Patentee or Applicant of Cited Document Number Kind Code³ (# known) MM-DD-YYYY Examiner Figures Appear /RL/ Thomer et al. 7/23/2002 6,422,941 2/19//2002 Mitchell et al. 6,349,301 12/12/2000 Perry et al. <u>6,160,489</u> Zilles et al. 8/29/2000 6,111,577 Bobick et al 7/28/1998 5,785,630 Sindair 6/16/1998 5,766,016 Ulrich et al. 5,690,582 11/25/1997 Hajlanpour 5,575,761 11/19/1996 5,547,382 8/20/1996 Yamasaki 11/14/1995 Hogan 5,466,213 Taylor 5,437,607 8/1/1995 Gutman et al. 5,436,622 7/25/1995 Wherlock 8/2/1994 5,334,027 Everett 5/3/1994 5,309,140 Pierce 4/5/1994 5,299,810 2/8/1994 Algner 5,283,970 Cook 5,275,174 1/4/1994 Fischer 12/21/1993 5,271,290 Smithson et al 8/31/1993 5,240,417 Louis 5/18/1993 5,212,473 2/16/1993 Mangseth et al 5,186,695 Danial et al. 5,175,459 12/29/1992 Johnson 11/24/1992 5,165,897 Bond 5,078,152 1/7/1992 Szakaly 8/6/1991 5,038,089 Franklin 7/30/1991 5,035,242 Horch et al 6/11/1991 5,022,407 Freeis 5,022,384 6/11/1991 Kraft 5/28/1991 5,019,761 Mointosh 6/19/1990 4,934,694 Baker 6/5/1990 4,930,770 1/2/1990 McIntosh 4,891,764 12/5/1989 Embach 4,885,565 12/27/1988 Selinko 4,794,392 12/15/1987 Alban

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INFO	ORMAT	ION DIS	SCLOSURE	Filling Date	July 10, 2003	
STA	TEMEN	T BY.A	PPLICANT	First Named Inventor	Louis B. Rosenberg	·
			•	Art Unit	2675	
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Sheet	2	of	6	Attorney Docket Number	IMMR106/01US	

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STA	TEMEN'	T BY APPLICANT	First Named Inventor	Louis B. Rosenberg
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1/	1	4,849,692	07/1989	Blood	
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/RL/	 	4,868,549	09/19/1989	Affinito et al.	

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Signature	Considered			
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Substitut	e for form 1449A/PTO	Complete if Known				
		Application Number	10/615,927			
INFO	RMATION DISCLOSURE	Filing Date	July 10, 2003			
STATEMENT BY APPLICANT		First Named Inventor	Louis B. Rosenberg			
		Art Unit .	2675			
	(use as many sheets as necessary)	Examiner Name	Unassigned			
Sheet	3 of 18	Attorney Docket Number	IMMR106/01US			

Examiner	Cite No.1	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of P Applicant of Ci		Pages, Columns, Lines, Where Relevant Passages or Relevant
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 -		4,888,538	12/19/1989			
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-		4,891,889	01/1990	Tom		
+		4,896,554	01/1990	Cut		
\rightarrow		4,907,970	03/13/1990	Meen		
+		4,907,973	03/1990	H		
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W		5,040,306	08/1991	McMuri		
7RL/		5.044,956	09/03/1991	Behens		

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•			Application Number	10/615,927			
INFORMAT	ION DIS	SCLOSURE	Filing Date	July 10, 2003			
STATEMEN	IT BY A	PPLICANT	First Named Inventor	Louis B. Rosenberg			
•			Art Unit .	2675			
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Sheet 4	of	18	Attorney Docket Number	IMMR106/01US			

	г	T	U.S. PATENT DOC	Julie 10	
Examiner	Cite No.1	Number Kind Code ² (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/RL/		5,050,608	09/29/1991	Watanabe et al.	
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INFO	DRMAT	ION DIS	SCLOSURE	Filing Date	July 10, 2003		
STA	STATEMENT BY APPLICANT			First Named Inventor .	Louis B. Rosenberg		
				Art Unit	2675		
	(use as many sheets as necessary)			Examiner Name	Unassigned		
Sheet	5 of		18	Attorney Docket Number	IMMR106/01US		

		Document Number]	1	_
xaminer	Cite No.1	Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Refevent Passages or Refevent Figures Appear
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INFORMATION DISCLOSURE	Filing Date	July 10, 2003	
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Eirst Named Inventor	Louis B. Rosenberg			
Art Unit .	2675			
Examiner Name	Unassigned			
Attorney Docket Number	IMMR106/01US			
	Filing Date First Named Inventor Art Unit Examiner Name			

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Examiner Signature		/Regina L	iang/	Date Considered	12/05/2007

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INFORMATION DISCLOSURE	Filing Date	July 10, 2003
STATEMENT BY APPLICANT	First Named Inventor	Louis B. Rosenberg
	Art Unit	2675.
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Sheet 8 of 18	Attorney Docket Number	IMMR106/01US

		Document Number			. 1	
Examiner	Cite No.	Number Kind Code ² (# known)	Publication Date MM-DD-YYYY	Name of Patent Applicant of Cited C		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Substitut	Substitute for form 1449A/PTO				Complete if Known	
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INFO	PRMATI	ON DIS	SCLOSURE	Filing Date	July 10, 2003	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Louis B. Rosenberg	
•	(use as many sheets as necessary)			Art Unit	2675.	
				Examiner Name	Unassigned	
Sheet	9 .	of	18	Attorney Docket Number	IMMR106/01US	

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Examiner	Cite No.1	Number Kind Code ² (il known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
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STA	STATEMENT BY APPLICANT			First Named Inventor	Louis B. Rosenberg		
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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
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Art Unit	2675
Examiner Name	Unassigned
Attorney Docket Number	IMMR106/01US

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Substitute	for form	1449A/F	TO		Complete if Known			
					Application Number	10/615,927		
IOMNI	RM/	OITA	N DIS	SCLOSURE	Filing Date	July 10, 2003		
STATEMENT BY APPLICANT					First Named Inventor	Louis B. Rosenberg		
					Art Unit	2675		
(use as many sheets as necessary)					Examiner Name	Unassigned		
Sheet	5		of	6	Attorney Docket Number	IMMR106/01US		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate) item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume				
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U.S. PATENT DOCUMENTS					
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			U.S. PATENT DOCL	JMENTS		
Examiner Cite No.1		Document Number Number Kind Cide ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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Examiner	Cite No.1	Number Kind Code ² (# known)	Publication Date MM-DD-YYYY	Name of Patentee Applicant of Cited Doo	
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			U.S. PATENT DOCU	MENTS
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S	T	Foreign Patent Document			Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	Cite No. ¹	Country Code ³	Number ⁴ Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	
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Substitu	te for form	1449A/P	то		Complete if Known			
					Application Number	10/615,927		
INPC	2RM/	OITA	N DIS	SCLOSURE	Filing Date	July 10, 2003		
STATEMENT BY APPLICANT				PPLICANT	First Named Inventor	Louis B. Rosenberg		
					Art Unit	2675		
(use as many sheets as necessary)				s necessary)	Examiner Name	Unassigned		
Sheet	10	7	of	18	Attorney Docket Number	IMMR106/01US		

		Foreign Patent Document				Name of Patentee or	Pages, Columns, Lines, Where Relevant
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Substitute for form 1449A/PTO Complete if Known 10/615,927 **Application Number** INFORMATION DISCLOSURE Filing Date July 10, 2003 STATEMENT BY APPLICANT Louis B. Rosenberg **First Named Inventor** Art Unit 2675 s many sheets as necessary) Examiner Name Unassigned (use IMMR106/01US 11 | 18 Sheet of **Attorney Docket Number**

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (took, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
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		Include Name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (Nook, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. ANSLEY, D., "Thimle gets in touch with reality," New Scientist, 1994, p. 19. ATKINSON, WILLIAM D. Nt al., "Computing with Feeling." Comput. & Graphys, vol. 2, No. 2-E, pp. 97-103. BAIGRIE, 'Electric Control Loating – A Low Cost, High Performance Alemative.' Proceedings, pp. 247-254, November 6-8, 1990. BATTER, JAMES J. et al., "Grope-1: Computer Display to the Sense of Feel," pp. TA-4-188-TA-4-192. BEJCZY, ANTAL K., "The Phantom Robot: Predictive Displays for Teleoperation with Time Delay." IEEE 1990, pp. 546-550. BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980. BEJCZY, "Generalization of Bilateral Force-Reflecting Court of Manipulators," Proceedings of Fourth CISM-IFTOMM, Sep. 8-12,1981. BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980. BEJCZY et al., "A Laboratory Bysadboard System For Dual-Arm Teleoperation." SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989. BEJCZY, et al., "A Laboratory Bysadboard System For Dual-Arm Teleoperation." SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989. BEJCZY, et al., "Tele-Virtual Reality of Dynamic Mechanical Model," Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems, Raleigh, NC, July 7-10, 1992. BROOKS, JR., F., et al., "Project GROPE-Haptic Displays for Scientific Visualization," Computer Graphics, vol. 24, Number 4, Aug., "1990, pp. 177-185. BROOKS et al., "And Controllers for Teleoperation – A State-of-the-Art Technology Survey and Evaluation," JPL Publication 6-11, NASA-CR-175890, NBS-28559, pp. 1-84, 031/1985. BURD

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STA	KEMI	ENT E	BY A	PPLICANT	First Named Inventor	Louis B. Rosenberg
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Sheet 5 of 8 Attorney Docket Number

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Complete if Known Substitute for form 1449A/PTO Application Number INFORMATION DISCLOSURE Filing Date July 10, 2003 STATEMENT BY APPLICANT First Named Inventor Louis B. ROSENBERG **Group Art Unit** (use as many sheets as necessary) Examiner Name of Attorney Docket Number IMMR106/01US Sheet

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Examiner	Date	
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